

Fig. 1

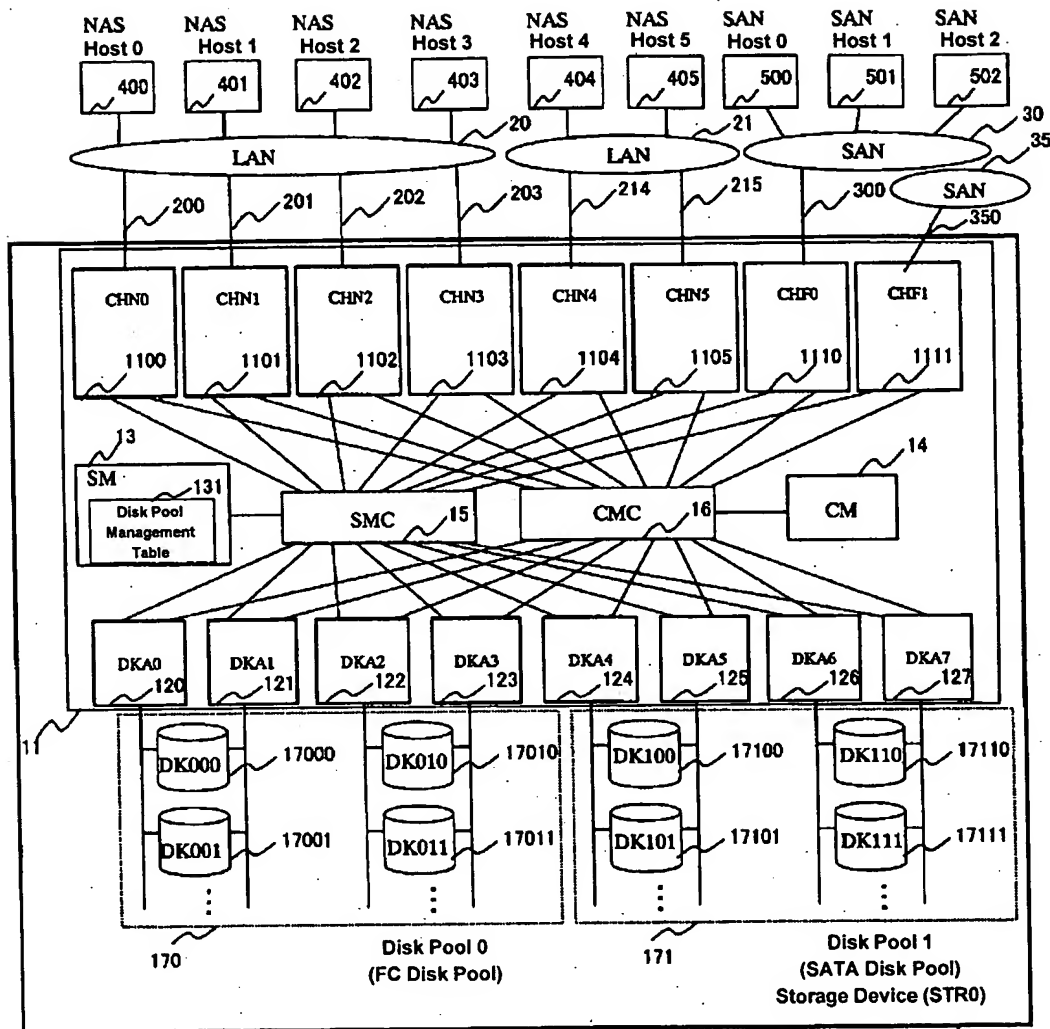
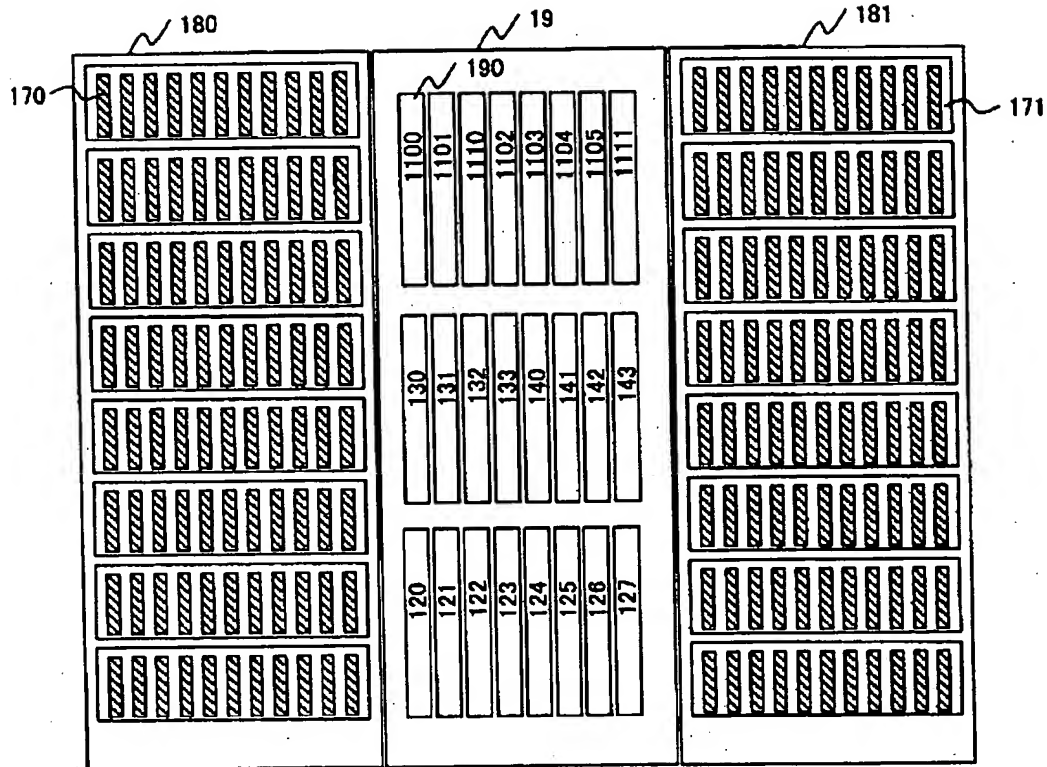
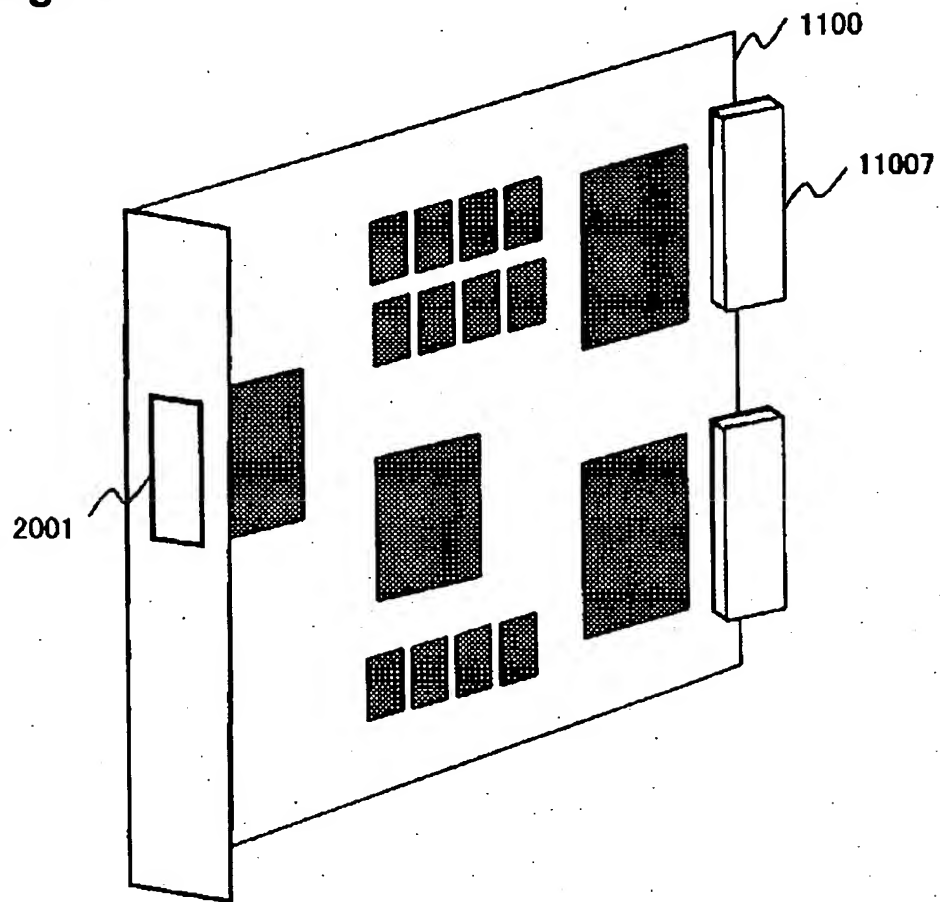


Fig. 2



**Fig. 3**



**Fig. 4**

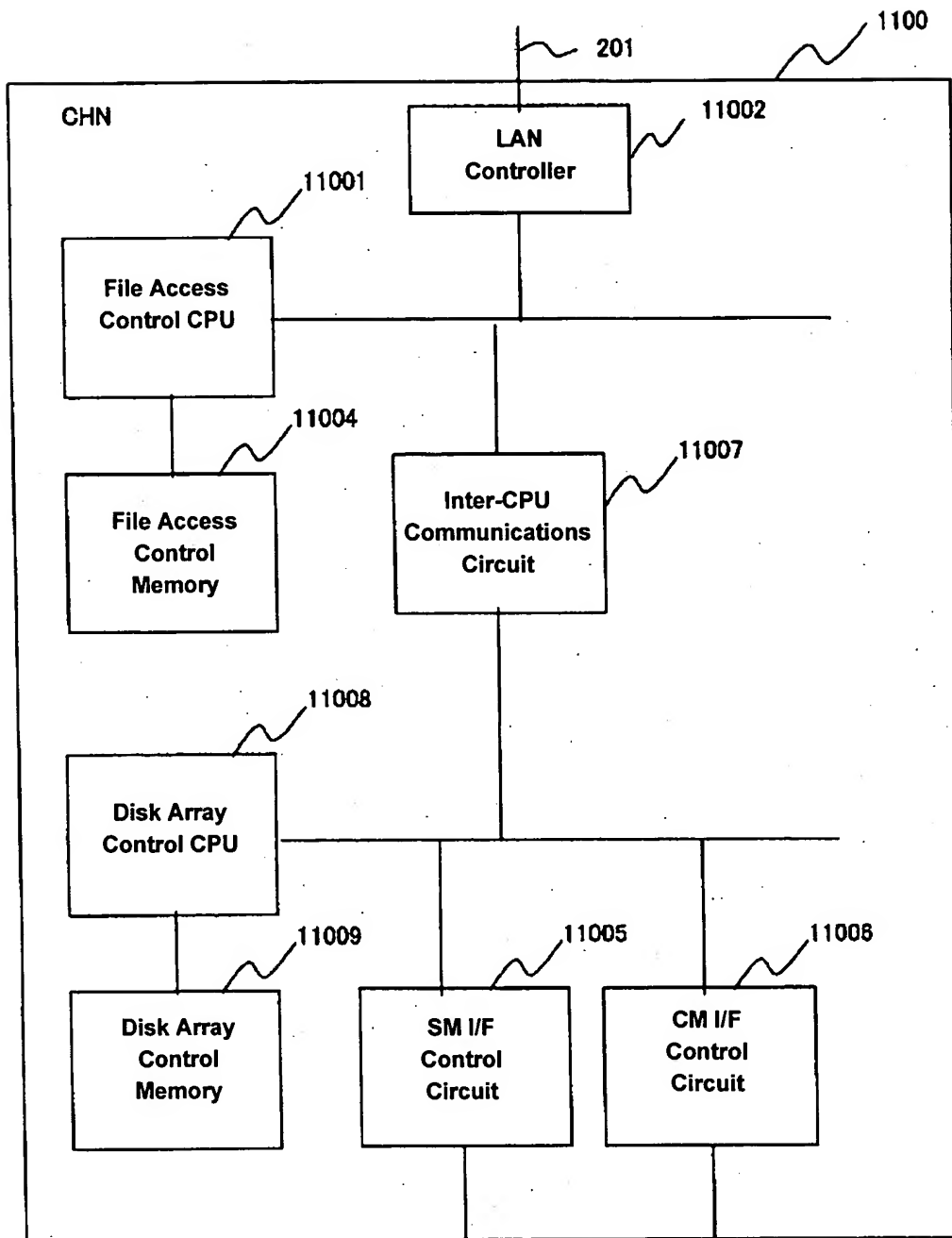


Fig. 5

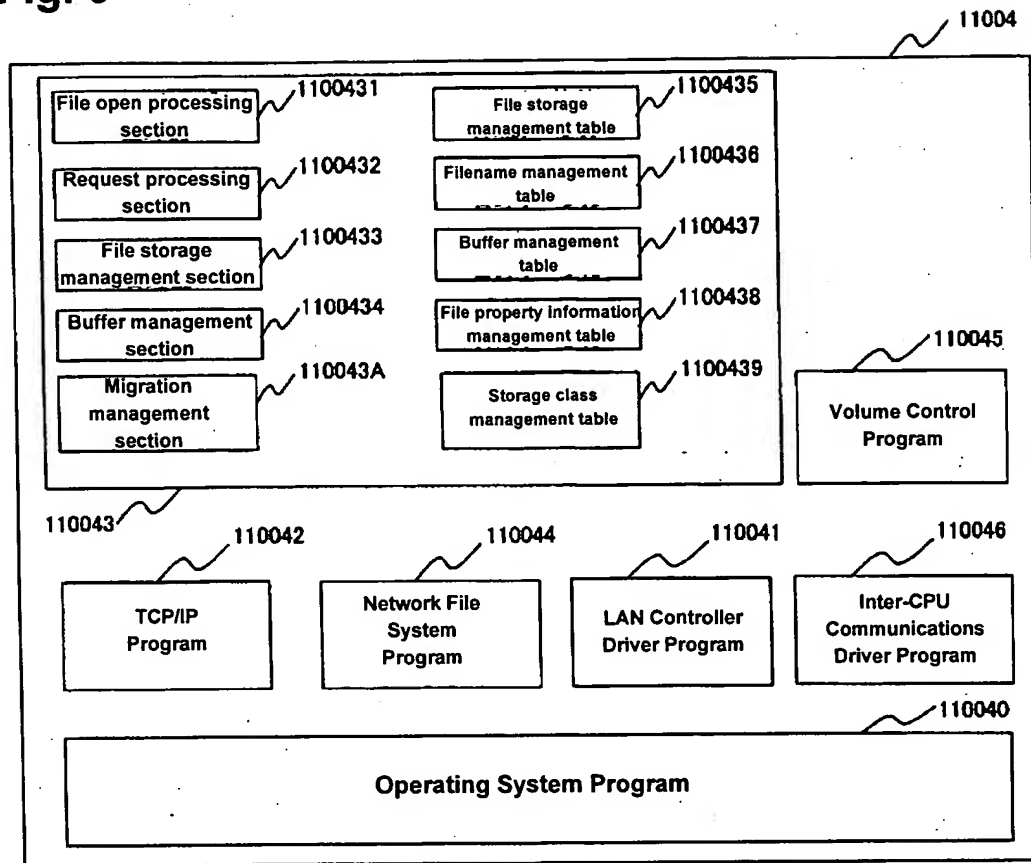


Fig. 6

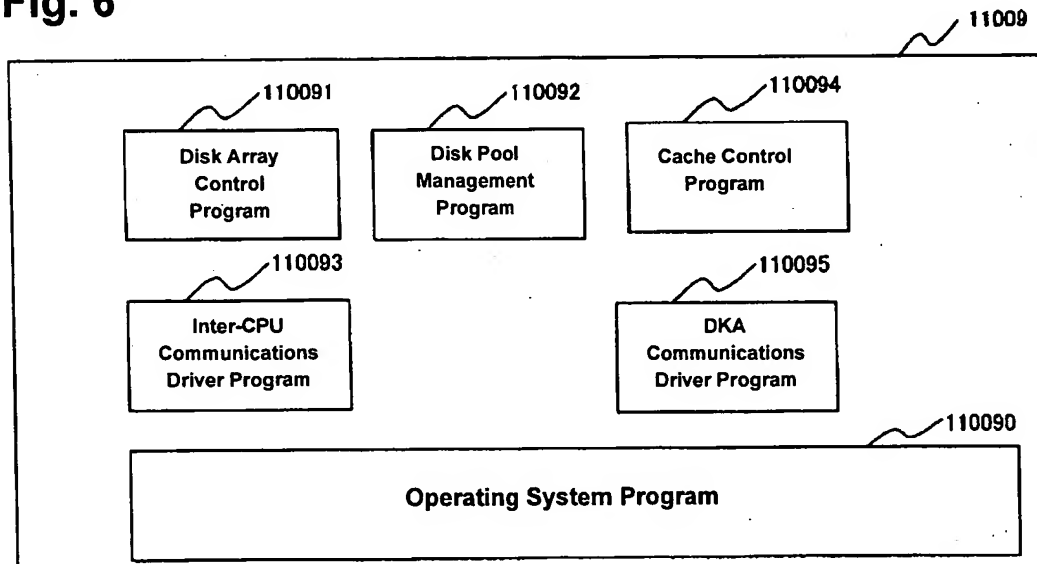
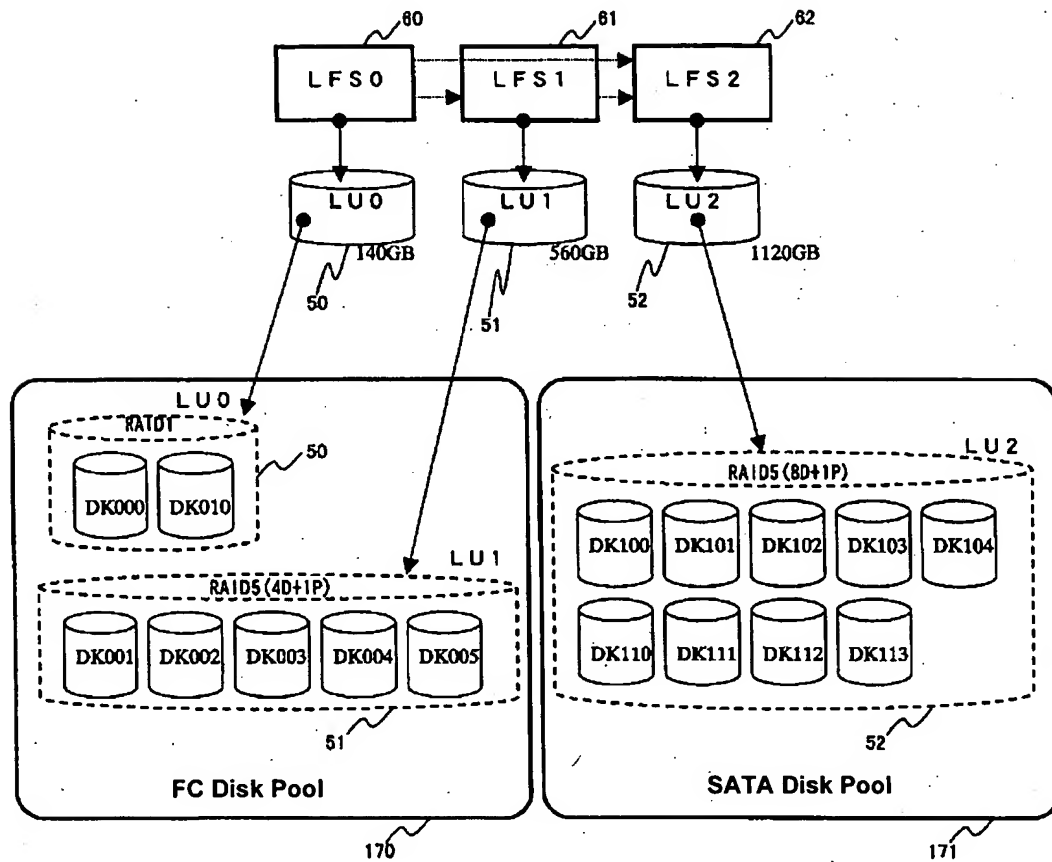


Fig. 7



**Fig. 8**

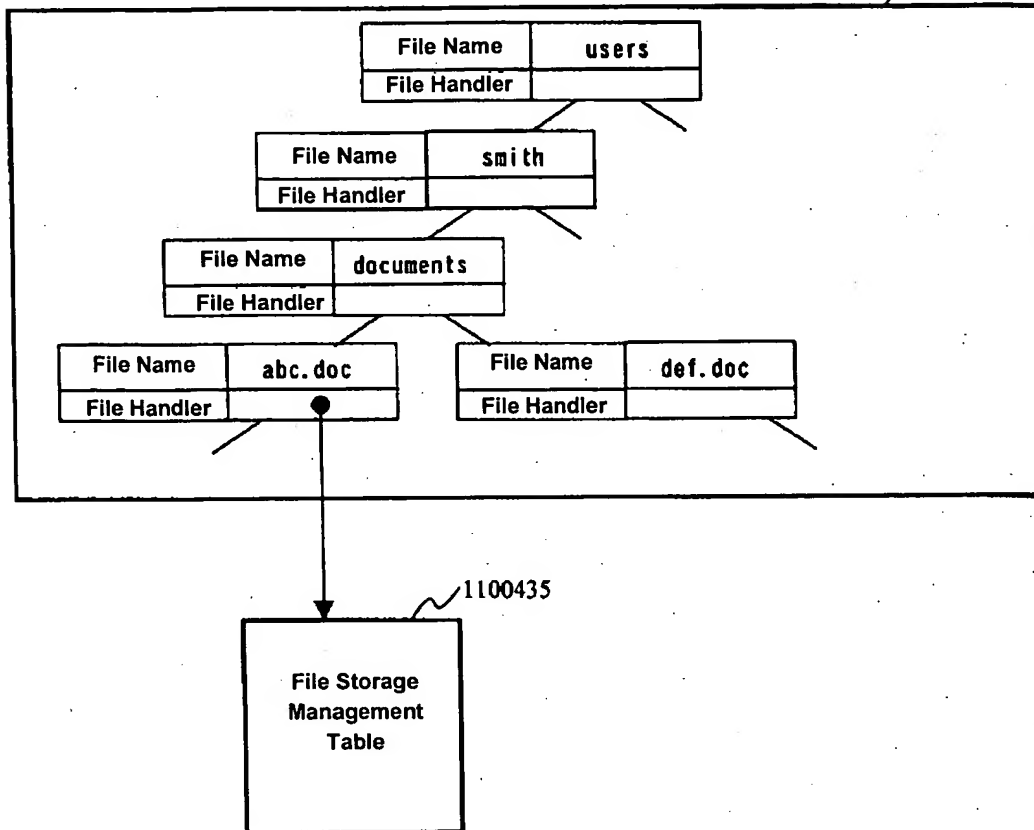
**Storage Class Management Table**

1100451

| Storage Class#<br>(1100451a) | Storage Node#<br>(1100451b) | Disk Pool#<br>(1100451c) | LU#<br>(1100451d) | LU Type<br>(1100451e) | RAID Conf.<br>(1100451f) | Usable Capacity<br>(1100451g) | Used Capacity<br>(1100451h) |
|------------------------------|-----------------------------|--------------------------|-------------------|-----------------------|--------------------------|-------------------------------|-----------------------------|
| OnLine Storage<br>(Premium)  | STR0                        | FC Pool                  | LU0               | Local File            | RAID1<br>1D+1P           | 140GB                         | 53GB                        |
| OnLine Storage<br>(Normal)   | STR0                        | FC Pool                  | LU1               | Local File            | RAID5<br>4D+1P           | 560GB                         | 125GB                       |
| NearLine Storage             | STR0                        | SATA Pool                | LU2               | Local File            | RAID5<br>8D+1P           | 1120GB                        | 320GB                       |
| Archive Storage              | STR1                        | SATA Pool                | LU3               | Remote File           | RAID5<br>15D+1P          | 2100GB                        | 480GB                       |
| Archive Storage              | STR2                        | SATA Pool                | LU4               | Remote Block          | RAID5<br>15D+1P          | 2100GB                        | 480GB                       |

**Fig. 9**

**File Name Management Table**





**Fig. 10**

**File Storage Management Table**

|   |        |      |
|---|--------|------|
| <b>File Property Information Management Table</b> |        | ●    |
| Size  | 49,152 |      |
| Block Number                                      | 6      |      |
| Link Destination Node Name                        | NULL   |      |
| Link Destination FS Name                          | NULL   |      |
| Link Destination File Name                        | NULL   |      |
| Link Destination File Handler                     | NULL   |      |
| <b>Buffer Management Table</b>                    | 0      | ●    |
|   | 1      | ●    |
|   | 2      | ●    |
|   | 3      | ●    |
|   | 4      | ●    |
|   | 5      | ●    |
|   | 6      | NULL |
|   | 7      | NULL |

**File Property Information Management Table**

**Buffer Management Table**

|                 |           |
|-----------------|-----------|
| Hash Link       | ●         |
| Queue Link      | ●         |
| Flag            | CLEAN     |
| Device Number   | STR0, LU0 |
| Block Number    | 1234      |
| Number of Bytes | 8192      |
| Buffer Size     | 8192 ●    |
| Buffer Pointer  |           |

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**Fig. 11**

**File Property Information Management Table**

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| Property Information Type    | Category                     | Attribute              | Content         |
|------------------------------|------------------------------|------------------------|-----------------|
| Static Property Information  | File Information             | File Type              | Document        |
|                              |                              | Application            | XYZ Word        |
|                              |                              | Date Created           | 2002.11.25      |
|                              |                              | Owner                  | Smith           |
|                              |                              | Access Identifier      | -rw-rw-rw-      |
|                              | Policy                       | Initial Storage Class  | Not designated  |
|                              |                              | Asset Value Type       | Important       |
|                              |                              | Life Cycle Model       | Model 1         |
|                              |                              | Migration Plan         | Plan 1          |
| Dynamic Property Information | Access Information           | Time Stamp             | 2003.1.1        |
|                              |                              | Access Count           | 12              |
|                              |                              | Read Count             | 7               |
|                              |                              | Write Count            | 5               |
|                              |                              | Read Size              | 7,168           |
|                              |                              | Write Size             | 5,120           |
|                              |                              | Read Sequential Count  | 6               |
|                              |                              | Write Sequential Count | 4               |
|                              | Life Cycle stage Information | Current Life Cycle     | Reference Stage |
|                              |                              | Current Storage Class  | NearLine        |

**Fig. 12**

**File Storage Management Table**

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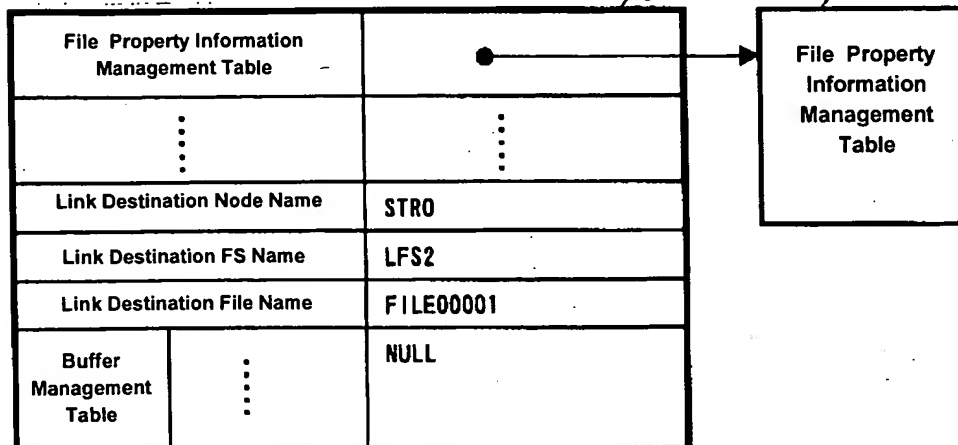
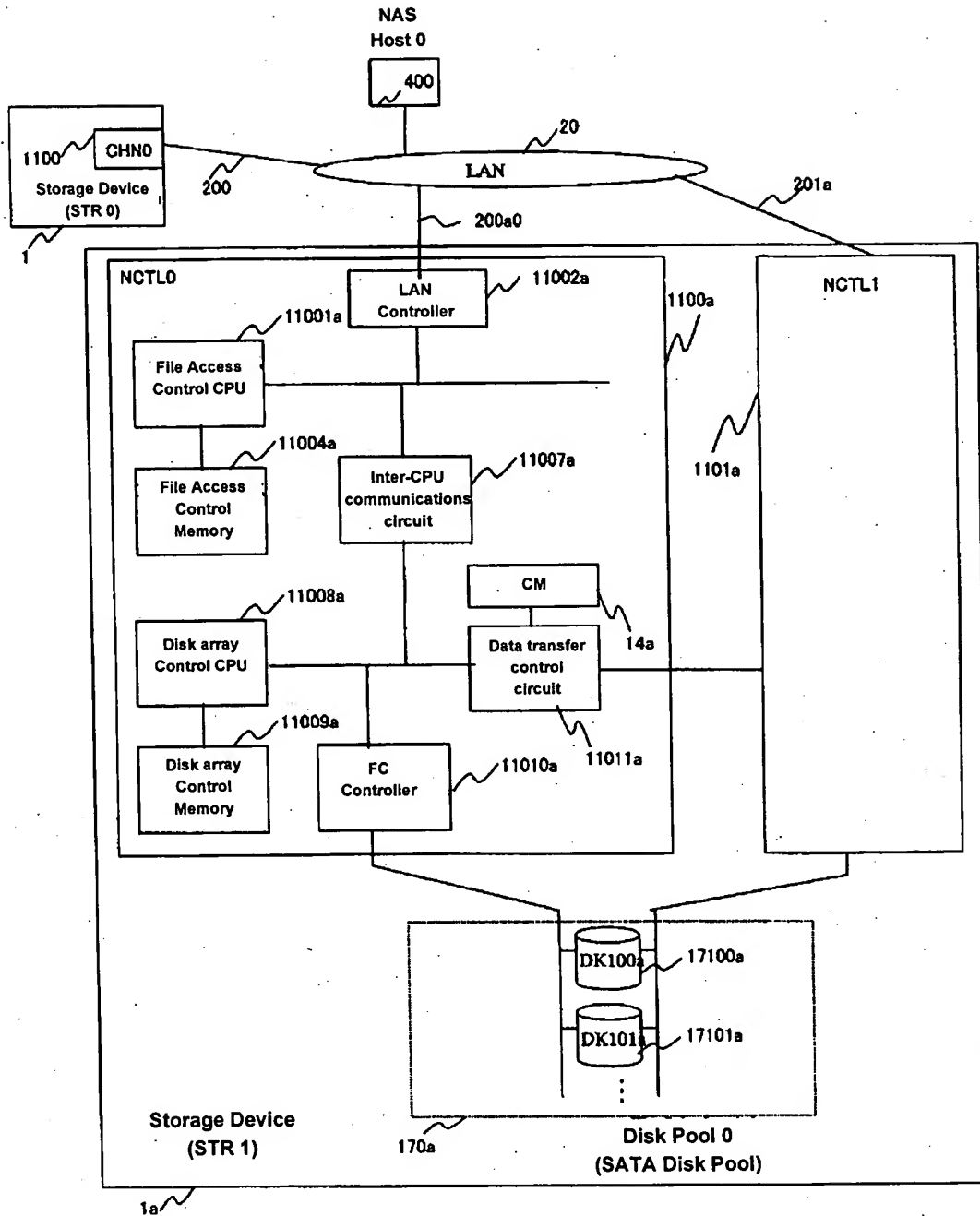


Fig. 13



**Fig. 14**

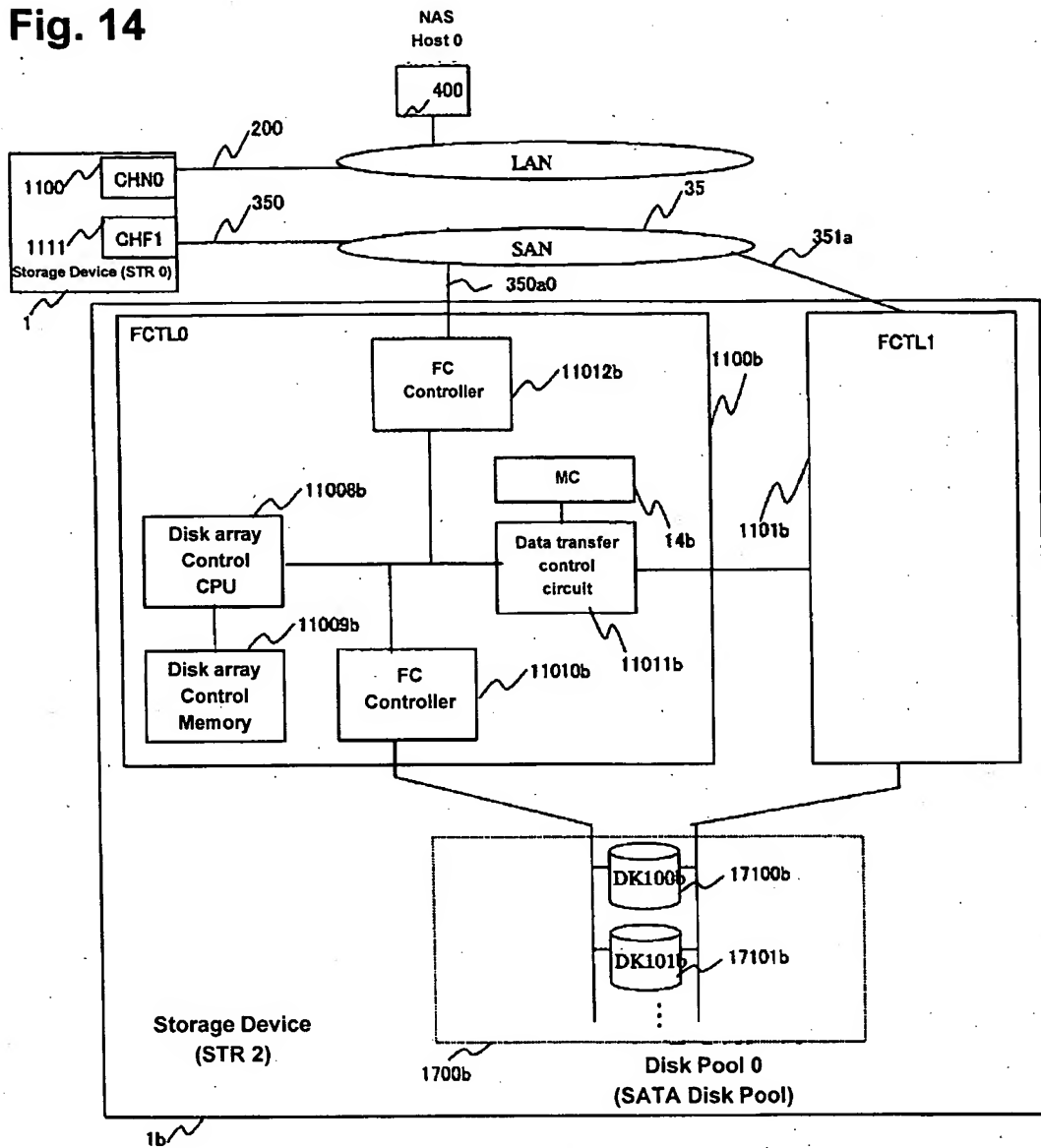
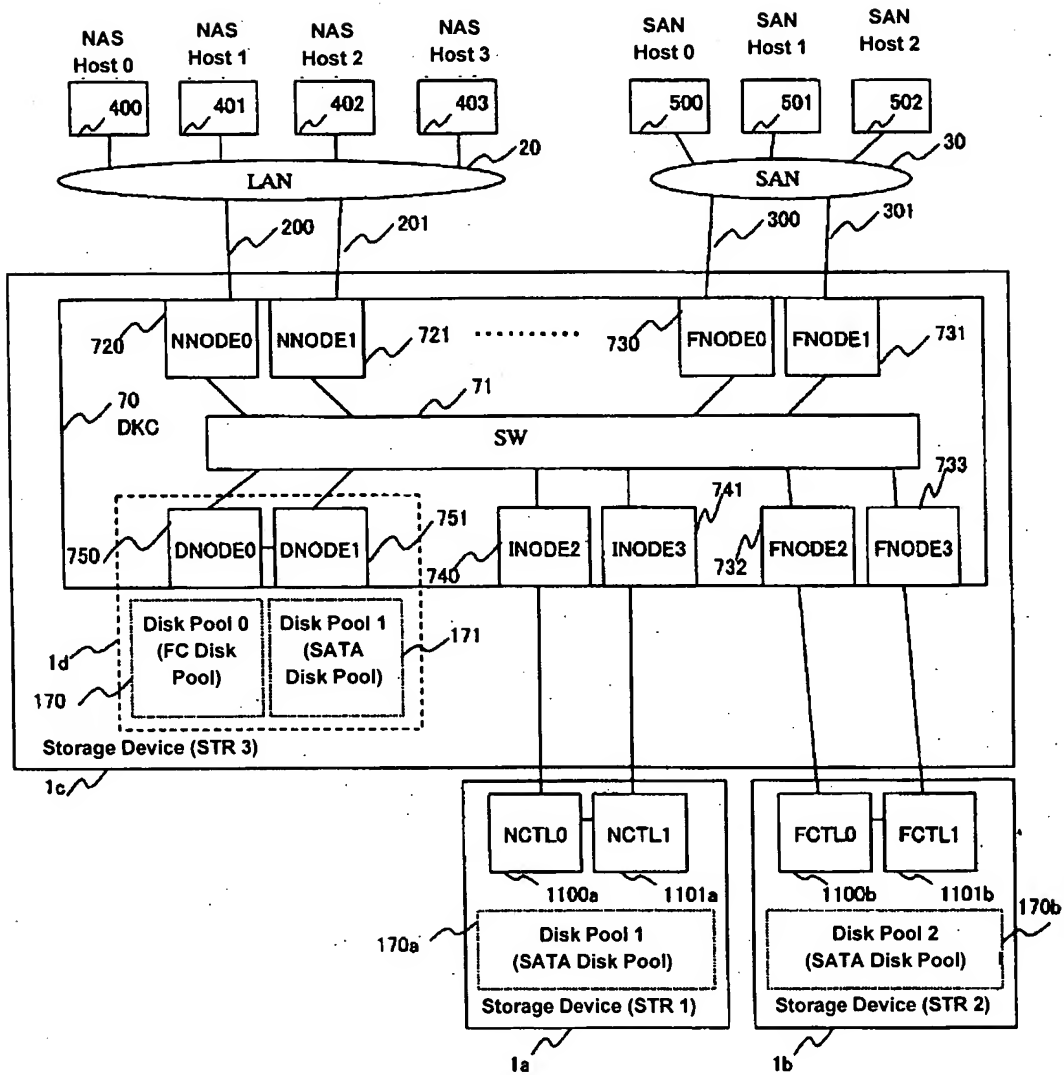
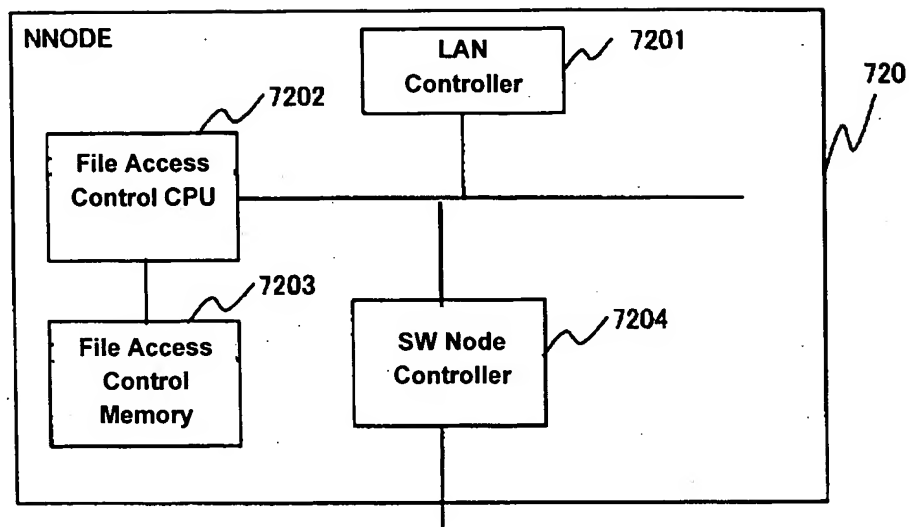


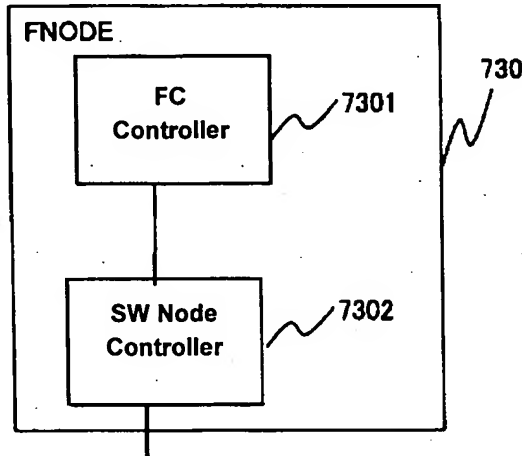
Fig. 15



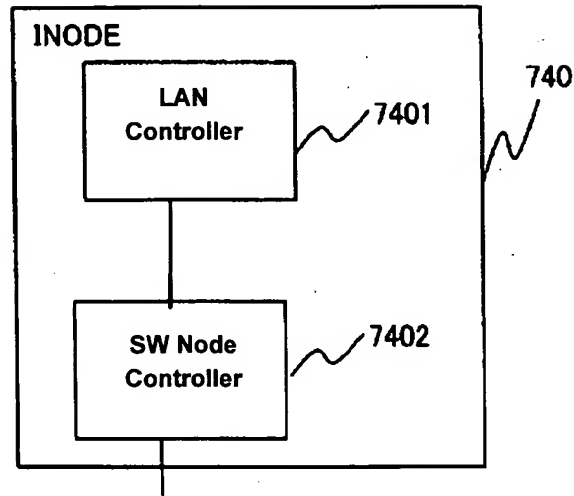
**Fig. 16**



**Fig. 17**



**Fig. 18**



**Fig. 19**

